II.   CLAIM AMENDMENTS

1-32. (cancelled)

33. (Currently amended) A method for decoding encoded video information, the method comprising:

   determining a prediction error quantizer from ~~the~~ encoded video information, the prediction error quantizer used to quantize ~~the~~ prediction error transform coefficients; and

   determining an accuracy of ~~the~~ motion coefficients based on the prediction error quantizer, the motion coefficients representing the motion of a picture segment.

34. (Previously presented) The method for decoding encoded video information according to claim 33, further comprising:

   receiving information indicating a motion coefficient quantizer for determining the accuracy of the motion coefficients.

35. (Currently amended) A decoder for decoding encoded video information, the decoder comprising:

   a demultiplexing unit ~~for:~~ determining a prediction error quantizer from the encoded video information, the prediction error quantizer used to quantize the prediction error transform coefficients; and

a motion field coding block for determining an accuracy of the motion coefficients
based on the prediction error quantizer, the motion coefficients representing the
motion of a picture segment.

36. (Previously presented) The decoder for decoding encoded video information
according to claim 35, wherein the demultiplexing unit is further configured to:

determine signalling information indicating a motion coefficient quantizer for
selecting the accuracy of the motion coefficients from the encoded video
information.

37. (Previously presented) A computer software program stored on a computer-
readable medium, the software program causing the computer to perform a method for
decoding encoded video information,

determining a prediction error quantizer from the encoded video information, the
prediction error quantizer used to quantize the prediction error transform
coefficients; and

determining an accuracy of the motion coefficients based on the prediction error
quantizer, the motion coefficients representing the motion of a picture segment.

38. (Currently amended) The computer software program according to claim 3537,
wherein the method further comprises:

receiving information indicating a motion coefficient quantizer for determining the
accuracy of the motion coefficients.

39. (Currently amended) An apparatus comprising a decoder for decoding encoded video information, wherein the decoder comprises:

an inverse quantization unit for: determining a prediction error quantizer from motion coefficients of the encoded video information, the prediction error quantizer serving to quantize prediction error transform coefficients; and

a further quantization unit for determining an accuracy of the motion coefficients based on the prediction error quantizer, the motion coefficients representing the motion of a picture segment; and.

40. (New) An apparatus according to claim 39 further comprising a connection from the decoder to the further quantization unit for communication of information of the prediction error quantizer from the encoded video information for use in the determining of the accuracy of the motion coefficients.

41. (New) A method according to claim 33 wherein, in the determining of the accuracy of the motion coefficients, there is a communication of information of the prediction error quantizer from the encoded video information for use in the determining of the accuracy of the motion coefficients.